

CofC

PATENT
ATTORNEY DOCKET NO.: 056291-5039

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION of:

PEARS et al.

U.S. Patent No.: 6,982,157

Issued: January 3, 2006

FOR: DRUG COMBINATIONS COMPRISING
(E)-7-[4-(4-FLUOROPHENYL)-6-
ISOPROPYL-2-
[METHYL(METHYLSULFONYL)
AMINO]PYRIMIDIN-5-YL](3R,5S)-3,5-
DIHYDROXYHEPT-6-ENOIC ACID AND
AN INHIBITOR, INDUCER OR
SUBSTRATE OF P450 ISOENZYME 3A4

Group Art Unit: 1654

Examiner: Meller, Michael V.

Mail Stop Certificate of Corrections Branch
U.S. Patent and Trademark Office
Customer Service Window
Randolph Building
401 Dulany Street
Alexandra, VA 22314

Date: February 26, 2007.

26, 2007

Certificate
FEB 28 2007
of Correction

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 CFR § 1.322

Sir:

This is a request for the issuance of a Certificate of Correction under 37 C.F.R. 1.322 in the above-referenced patent, adding to Field (75) Inventors, the name “**Yamaguchi**, Yoshitaka (JP),” which was omitted through error of the Office. Two (2) copies of form PTO-1050 are enclosed. The complete Certificate of Correction involves one (1) page.

Applicants respectfully submit that the error was incurred through the fault of the Office, which mistake is clearly disclosed in the records of the Office. Specifically, attached hereto as **Attachment 1**, which is the Declaration filed in this application as taken from the US PTO PAIR database showing Yoshitaka Yamaguchi as the last-named inventor, and **Attachment 2**, “PCT Request” taken from the US PTO PAIR database also Yoshitaka Yamaguchi as the last-named inventor. Accordingly, correction under 37 C.F.R. 1.322 is requested. As the errors identified in

MAR - 1 2007

the above-referenced U.S. Patent occurred through the fault of the U.S. Patent Office, no fee is enclosed. However, if there are any additional fees due in connection with the filing of this Request, the Commissioner is hereby authorized to charge any fees due to Deposit Account No. 50-0310.

Dated: **February 26, 2007**
Morgan, Lewis & Bockius LLP
Customer No. **09629**
1111 Pennsylvania Avenue, N.W.
Washington, D.C. 20004
202-739-3000

Respectfully submitted
Morgan, Lewis & Bockius LLP



Donald J. Bird
Registration No. 25,323

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. **6,982,157 B1**

ISSUED: **January 3, 2006**

INVENTORS: **John S. PEARS *et al.***

It is hereby certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

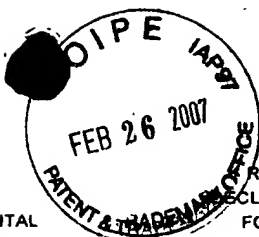
Field (75) Inventors: add at end thereof, "**Yamaguchi, Yoshitaka (JP)**"

MAILING ADDRESS OF SENDER
1-WA/2708820.1
MORGAN, LEWIS & BOCKIUS LLP
Attn: Patent Support Unit
1111 Pennsylvania Avenue, NW
Washington, DC 20004

Patent No. **6,982,157 B1**

MAR - 1 2007

FOR UTILITY/DESIGN
CIP/PTCT NATIONAL/PLANT
ORIGINAL/SUBSTITUTE/SUPPLEMENTAL
DECLARATIONS



RULE 63 (37 C.F.R. 1.63)
DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PW
FORM

Z70475/UST

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the **INVENTION ENTITLED: DRUG COMBINATIONS COMPRISING (E)-7-[4-(4-FLUOROPHENYL)-6-ISOPROPYL-2-METHYL (METHYLSULPHONYL)AMINO]PYRIMIDIN-5-YL[(3R,5S)-3,5-DIHYDROXYHEPT-6-ENOIC ACID AND AN INHIBITOR, INDUCER OR SUBSTRATE OF P450 ISOENZYME 3A4**

the specification, of which (CHECK applicable BOX(ES))
X BOX(ES) ☐ A. ☐ is attached hereto,
☐ B. ☐ was filed on _____ as U.S. Application No. _____

☐ C. ☐ was filed as PCT International Application No. PCT/GB00/00278 on 01 February 2000 and (if applicable to U.S. or PCT application) was amended on _____. I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56. Except as noted below, I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International Application which designated at least one other country than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, or PCT International Application, filed by me or my assignee disclosing the subject matter claimed in this application and having a filing date (1) before that of the application on which priority is claimed, or (2) if no priority claimed, before the filing date of this application:

PRIOR FOREIGN APPLICATION(S) Number	Country	Date first laid- open or Published	Date Patented or Granted	Priority NOT Claimed
9902593.4	United Kingdom	06.02.1999		
9921063.6	United Kingdom	08.09.1999		
9921064.3	United Kingdom	08.09.1999		

Except as noted below, I hereby claim domestic priority benefit under 35 U.S.C. 119(e) or 120 and/or 365(c) of the indicated United States applications listed below and PCT international applications listed above or below and, if this is a continuation-in-part (CIP) application, insofar as the subject matter disclosed and claimed in this application is in addition to that disclosed in such prior applications, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of each such prior application and the national or PCT international filing date of this application:

PRIOR U.S. PROVISIONAL, NON PROVISIONAL AND/OR PCT APPLICATION(S) Application No. (series code/serial no.)	Date/MONTH/Year Filed	Status	Priority NOT Claimed
		Pending, abandoned, patented	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

And I hereby appoint Pillsbury Winthrop LLP, Intellectual Property Group, telephone number (202)861-3000 (to whom all communications are to be directed), and persons of that firm who are associated with USPTO Customer No. 909 (see below label) individually and collectively my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent, and I hereby authorize them to delete from that Customer No. names of persons no longer with their firm, to add new persons of their firm to that Customer No., and to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct the above Firm and/or an attorney of that Firm in writing to the contrary.

(1) INVENTOR'S SIGNATURE

Name	JOHN	First	S	Middle Initial	PEARS	Family Name
Residence	Macclesfield	City	Cheshire	State/Foreign Country	United Kingdom	Country of Citizenship
Mailing Address	Alderley Park, Macclesfield, Cheshire SK10 4TG, United Kingdom					
(include Zip Code)						

(2) INVENTOR'S SIGNATURE

Name	ALI	First	RAZA	Middle Initial	Family Name	
Residence	Wilmington	City	Delaware	State/Foreign Country	USA	Country of Citizenship
Mailing Address	1800 Concord Pike, PO Box 15437, Wilmington, Delaware 19850-5437, USA					
(include Zip Code)						

☒ OR ADDITIONAL INVENTORS see attached page.
☐ See additional foreign priorities on attached page (incorporated herein by reference).

Atty. Dkt. No. P _____

(M#)

DECLARATION AND POWER OF ATTORNEY

MAR - 1 2007

Attachment 1

(continued)
Additional Inventors

Page 2
Z70476/UST

(3) INVENTOR'S SIGNATURE

Date: 4 September 2001

Name	HOWARD	First	G	Middle Initial	HUTCHINSON	Family Name
Residence	Wilmington	City	Delaware	State/Foreign Country	USA	Country of Citizenship
Mailing Address (include Zip Code)	1800 Concord Pike, PO Box 15437, Wilmington, Delaware 19850-5437, USA					

(4) INVENTOR'S SIGNATURE

Date: 4 September 2001

Name	DENNIS	First		Middle Initial	SCHNECK	Family Name
Residence	Wilmington	City	Delaware	State/Foreign Country	USA	Country of Citizenship
Mailing Address (include Zip Code)	1800 Concord Pike, PO Box 15437, Wilmington, Delaware 19850-5437, USA					

(5) INVENTOR'S SIGNATURE

Date: 18th September 2001

Name	TAKAHIKO	First		Middle Initial	BABA	Family Name
Residence	Toyonaka-shi	City	Osaka	State/Foreign Country	Japan	Country of Citizenship
Mailing Address (include Zip Code)	Shionogi & Co., 1-1, Futabacho 3-chome, Toyonaka-shi, Osaka 561-0825, Japan					

(6) INVENTOR'S SIGNATURE

Date: 18th September 2001

Name	AKIRA	First		Middle Initial	TOUCHI	Family Name
Residence	Toyonaka-shi	City	Osaka	State/Foreign Country	Japan	Country of Citizenship
Mailing Address (include Zip Code)	Shionogi & Co., 1-1, Futabacho 3-chome, Toyonaka-shi, Osaka 561-0825, Japan					

(7) INVENTOR'S SIGNATURE

Date: 18th Sep. 2001

Name	YOSHITAKA	First		Middle Initial	YAMAGUCHI	Family Name
Residence	Toyonaka-shi	City	Osaka	State/Foreign Country	Japan	Country of Citizenship
Mailing Address (include Zip Code)	Shionogi & Co., 1-1, Futabacho 3-chome, Toyonaka-shi, Osaka 561-0825, Japan					

(8) INVENTOR'S SIGNATURE

Date:

Name		First		Middle Initial		Family Name
Residence		City		State/Foreign Country		Country of Citizenship
Mailing Address (include Zip Code)						

(9) INVENTOR'S SIGNATURE

Date:

Name		First		Middle Initial		Family Name
Residence		City		State/Foreign Country		Country of Citizenship
Mailing Address (include Zip Code)						

MAR - 1 2007

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference
(if desired) (12 characters maximum) PHM 70475/WO

Box No. I TITLE OF INVENTION

DRUG COMBINATIONS

Box No. II APPLICANT

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

ZENECA Limited
15 Stanhope Gate
London
W1Y 6LN
GB

☐ This person is also inventor.

Telephone No.

+44-1625-516173

Facsimile No.

+44-1625-583358

Teleprinter No.

669095/669388

State (that is, country) of nationality:
GB

State (that is, country) of residence:
GB

This person is applicant for the purposes of:

☐

all designated States

☒

all designated States except the United States of America

☐

the United States of America only

☐

the States indicated in the Supplemental Box

Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

Shionogi & Co Ltd
Doshomachi 3-chome
Chuo-Ku
Osaka 541-0045
JP

This person is:

☒ applicant only

☐ applicant and inventor

☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:
JP

State (that is, country) of residence:
JP

This person is applicant for the purposes of:

☐

all designated States

☒

all designated States except the United States of America

☐

the United States of America only

☐

the States indicated in the Supplemental Box

☒ Further applicants and/or (further) inventors are indicated on a continuation sheet.

Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:

☒

agent

☐

common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

BROWN, Andrew Stephen
Global Intellectual Property
AstraZeneca PLC
Mereside, Alderley Park, Macclesfield
Cheshire SK10 4TG - GB

Telephone No.

+44-1625-514620

Facsimile No.

+44-1625-583358

Teleprinter No.

669095/669388

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

MAR - 1 2007
Attachment 2

Continuation of Box No. III FURTHER APPLICANTS AND/OR (FURTHER) INVENTORS			
<i>If none of the following sub-boxes is used, this sheet should not be included in the request.</i>			
<p><small>Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</small></p> <p>RAZA, Ali 1800 Concord Pike PO Box 15437 Wilmington Delaware 19850-5437 USA</p>		<p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input checked="" type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)</p>	
<p>State (that is, country) of nationality: GB</p>		<p>State (that is, country) of residence: US</p>	
<p>This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box</p>			
<p><small>Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</small></p> <p>PEARS, John Stuart Alderley Park Macclesfield Cheshire SK10 4TG GB</p>		<p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input checked="" type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)</p>	
<p>State (that is, country) of nationality: GB</p>		<p>State (that is, country) of residence: GB</p>	
<p>This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box</p>			
<p><small>Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</small></p> <p>HUTCHINSON, Howard George 1800 Concord Pike PO Box 15437 Wilmington Delaware 19850-5437 USA</p>		<p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input checked="" type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)</p>	
<p>State (that is, country) of nationality: US</p>		<p>State (that is, country) of residence: US</p>	
<p>This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box</p>			
<p><small>Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</small></p> <p>SCHNECK, Dennis 1800 Concord Pike PO Box 15437 Wilmington Delaware 19850-5437 USA</p>		<p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input checked="" type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)</p>	
<p>State (that is, country) of nationality: US</p>		<p>State (that is, country) of residence: US</p>	
<p>This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box</p>			
<p><input checked="" type="checkbox"/> Further applicants and/or (further) inventors are indicated on another continuation sheet.</p>			

Continuation of Box No. III FURTHER APPLICANTS AND/OR (FURTHER) INVENTORS	
<i>If none of the following sub-boxes is used, this sheet should not be included in the request.</i>	
<p><small>Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</small></p> <p>BABO, Takahiko Shionogi & Co Ltd 1-1, Futabacho 3-chome Toyonaka-shi Osaka 561-0825 JP</p>	<p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input checked="" type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)</p>
State (that is, country) of nationality: JP	State (that is, country) of residence: JP
<p>This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box</p>	
<p><small>Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</small></p> <p>TOUCHI, Akira Shionogi & Co Ltd 1-1, Futabacho 3-chome Toyonaka-shi Osaka 561-0825 JP</p>	<p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input checked="" type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)</p>
State (that is, country) of nationality: JP	State (that is, country) of residence: JP
<p>This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box</p>	
<p><small>Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</small></p> <p>YAMAGUCHI, Yoshitaka Shionogi & Co Ltd 1-1, Futabacho 3-chome Toyonaka-shi Osaka 561-0825 JP</p>	<p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input checked="" type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)</p>
State (that is, country) of nationality: JP	State (that is, country) of residence: JP
<p>This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box</p>	
<p><small>Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</small></p>	<p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)</p>
State (that is, country) of nationality:	State (that is, country) of residence:
<p>This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box</p>	
<p><input type="checkbox"/> Further applicants and/or (further) inventors are indicated on another continuation sheet.</p>	

MAR - 1 2007

Box No.V DESIGNATION OF STATES

The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):

Regional Patent

- ☒ **AP** ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SZ Swaziland, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT
- ☒ **EA** Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- ☒ **EP** European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- ☒ **OA** OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

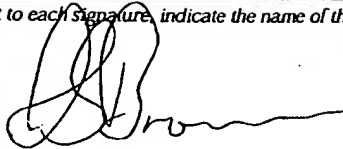
National Patent (if other kind of protection or treatment desired, specify on dotted line):

- | | |
|---|---|
| <input checked="" type="checkbox"/> AL Albania | <input checked="" type="checkbox"/> LS Lesotho |
| <input checked="" type="checkbox"/> AM Armenia | <input checked="" type="checkbox"/> LT Lithuania |
| <input checked="" type="checkbox"/> AT Austria | <input checked="" type="checkbox"/> LU Luxembourg |
| <input checked="" type="checkbox"/> AU Australia | <input checked="" type="checkbox"/> LV Latvia |
| <input checked="" type="checkbox"/> AZ Azerbaijan | <input checked="" type="checkbox"/> MD Republic of Moldova |
| <input checked="" type="checkbox"/> BA Bosnia and Herzegovina | <input checked="" type="checkbox"/> MG Madagascar |
| <input checked="" type="checkbox"/> BB Barbados | <input checked="" type="checkbox"/> MK The former Yugoslav Republic of Macedonia |
| <input checked="" type="checkbox"/> BC Bulgaria | <input checked="" type="checkbox"/> MN Mongolia |
| <input checked="" type="checkbox"/> BR Brazil | <input checked="" type="checkbox"/> MW Malawi |
| <input checked="" type="checkbox"/> BY Belarus | <input checked="" type="checkbox"/> MX Mexico |
| <input checked="" type="checkbox"/> CA Canada | <input checked="" type="checkbox"/> NO Norway |
| <input checked="" type="checkbox"/> CH and LI Switzerland and Liechtenstein | <input checked="" type="checkbox"/> NZ New Zealand |
| <input checked="" type="checkbox"/> CN China | <input checked="" type="checkbox"/> PL Poland |
| <input checked="" type="checkbox"/> CU Cuba | <input checked="" type="checkbox"/> PT Portugal |
| <input checked="" type="checkbox"/> CZ Czech Republic | <input checked="" type="checkbox"/> RO Romania |
| <input checked="" type="checkbox"/> DE Germany | <input checked="" type="checkbox"/> RU Russian Federation |
| <input checked="" type="checkbox"/> DK Denmark | <input checked="" type="checkbox"/> SD Sudan |
| <input checked="" type="checkbox"/> EE Estonia | <input checked="" type="checkbox"/> SE Sweden |
| <input checked="" type="checkbox"/> ES Spain | <input checked="" type="checkbox"/> SG Singapore |
| <input checked="" type="checkbox"/> FI Finland | <input checked="" type="checkbox"/> SI Slovenia |
| <input checked="" type="checkbox"/> GB United Kingdom | <input checked="" type="checkbox"/> SK Slovakia |
| <input checked="" type="checkbox"/> GD Grenada | <input checked="" type="checkbox"/> SL Sierra Leone |
| <input checked="" type="checkbox"/> GE Georgia | <input checked="" type="checkbox"/> TJ Tajikistan |
| <input checked="" type="checkbox"/> GH Ghana | <input checked="" type="checkbox"/> TM Turkmenistan |
| <input checked="" type="checkbox"/> GM Gambia | <input checked="" type="checkbox"/> TR Turkey |
| <input checked="" type="checkbox"/> HR Croatia | <input checked="" type="checkbox"/> TT Trinidad and Tobago |
| <input checked="" type="checkbox"/> HU Hungary | <input checked="" type="checkbox"/> UA Ukraine |
| <input checked="" type="checkbox"/> ID Indonesia | <input checked="" type="checkbox"/> UG Uganda |
| <input checked="" type="checkbox"/> IL Israel | <input checked="" type="checkbox"/> US United States of America |
| <input checked="" type="checkbox"/> IN India | <input checked="" type="checkbox"/> UZ Uzbekistan |
| <input checked="" type="checkbox"/> IS Iceland | <input checked="" type="checkbox"/> VN Viet Nam |
| <input checked="" type="checkbox"/> JP Japan | <input checked="" type="checkbox"/> YU Yugoslavia |
| <input checked="" type="checkbox"/> KE Kenya | <input checked="" type="checkbox"/> ZW Zimbabwe |
| <input checked="" type="checkbox"/> KG Kyrgyzstan | |
| <input checked="" type="checkbox"/> KP Democratic People's Republic of Korea | |
| <input checked="" type="checkbox"/> KR Republic of Korea | |
| <input checked="" type="checkbox"/> KZ Kazakhstan | |
| <input checked="" type="checkbox"/> LC Saint Lucia | |
| <input checked="" type="checkbox"/> LK Sri Lanka | |
| <input checked="" type="checkbox"/> LR Liberia | |

Check-boxes reserved for designating States (for the purposes of a national patent) which have become party to the PCT after issuance of this sheet:

- ☒ **DM** DOMINICA ☒ **ZA** SOUTH AFRICA
- ☒ **UE** UNITED ARAB EMIRATES ☒ **TZ** TANZANIA
- ☒ **CR** COSTA RICA ☒ **MA** MOROCCO

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

Box No. VI PRIORITY CLAIM		<input type="checkbox"/> Further priority claims are indicated in the Supplemental Box.		
Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country	regional application:* regional Office	international application: receiving Office
item (1) 06Feb99 (06/02/1999)	9902593.4			
item (2) 08Sep99 (08/09/1999)	9921063.5			
item (3) 08Sep99 (08/09/1999)	9921064.3			
<input type="checkbox"/> The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of the present international application is the receiving Office) identified above as item(s):				
<small>* Where the earlier application is an ARIPO application, it is mandatory to indicate in the Supplemental Box at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed (Rule 4.10(b)(ii)). See Supplemental Box.</small>				
Box No. VII INTERNATIONAL SEARCHING AUTHORITY				
Choice of International Searching Authority (ISA) <small>(if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):</small>		Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority): Date (day/month/year) Number Country (or regional Office)		
ISA /				
Box No. VIII CHECK LIST; LANGUAGE OF FILING				
This international application contains the following number of sheets: request : 5 description (excluding sequence listing part) : 40 claims : 5 abstract : 1 drawings : sequence listing part of description : Total number of sheets : 51		This international application is accompanied by the item(s) marked below: 1. <input checked="" type="checkbox"/> fee calculation sheet 2. <input type="checkbox"/> separate signed power of attorney 3. <input type="checkbox"/> copy of general power of attorney; reference number, if any: 4. <input type="checkbox"/> statement explaining lack of signature 5. <input checked="" type="checkbox"/> priority document(s) identified in Box No. VI as item(s): (1), (2), (3) 6. <input type="checkbox"/> translation of international application into (language): 7. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material 8. <input type="checkbox"/> nucleotide and/or amino acid sequence listing in computer readable form 9. <input type="checkbox"/> other (specify):		
Figure of the drawings which should accompany the abstract:		Language of filing of the international application: English		
Box No. IX SIGNATURE OF APPLICANT OR AGENT				
Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).				
 BROWN, Andrew Stephen Agent for the Applicant				

For receiving Office use only	
1. Date of actual receipt of the purported international application:	2. Drawings: <input type="checkbox"/> received: <input type="checkbox"/> not received:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:	
4. Date of timely receipt of the required corrections under PCT Article 11(2):	
5. International Searching Authority (if two or more are competent): ISA /	
6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid.	

For International Bureau use only
Date of receipt of the record copy by the International Bureau: